**Project #4**

**COMPSCI 221, due: Monday, 10/5**

A maze is implemented as a two-dimensional character array in which passages are marked with 0s, walls by 1s, exit position by the letter e and the initial position by the letter b. For example,

1 1 1 1 1

b 0 1 0 1

1 0 1 0 e

0 0 0 0 1

1 1 1 1 1

is a maze that has only one solution:

1 1 1 1 1

b p 1 0 1

1 p 1 p e

1 p p p 1

1 1 1 1 1

Write a program that asks the user to enter the dimensions of a maze and the maze, finds and prints out **graphical solutions** of all possible paths (a solution is printed for each path, each maze entered may have multiple solutions) by replacing the 0s with ps in each path like the above example.

Make sure that your program is object-oriented and has professional documentation and appropriate indentation. You are not required to hand in your java document generated by javadoc any more.

A sample maze you may use is

11111111111

10000010001

10100010101

e0100000101

10111110101

10101000101

10001010001

11111010001

101b1010001

10000010001

11111111111